

Question Paper

Exam Date & Time: 24-May-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - MAY 2022
SUBJECT: RRT2201 - DIALYSIS TECHNOLOGY - II
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) What is the purpose of R.O water in hemodialysis Unit? Explain the monitoring & maintenance of the water treatment plant used in hemodialysis. (20)
- 2) Classify different types of peritoneal catheters. Explain the chronic complications of peritoneal dialysis catheters. (20)
- 3) Define dialysis access. Compare temporary and permanent vascular access. (10)
- 4) Outline the causes and management of common patient-related complications associated with hemodialysis. (10)
- 5A) Explain the Rule of six and maturation of arteriovenous fistula. (5)
- 5B) List types and purpose of dialyzer reprocessing. (5)
- 5C) Explain the prevention and management of cramps during hemodialysis. (5)
- 5D) Define catheter break-in period. Why catheter break-in period is important in peritoneal dialysis? (5)
- 5E) Explain the different types of osmotic agents used in peritoneal dialysis solutions. (5)
- 5F) Outline the characteristics of different types of peritoneal membrane transport. (5)
- 6A) Why softener regeneration is required? (2)
- 6B) Define Fiber Bundle Volume. (2)
- 6C) List any two technical complications associated with hemodialysis. (2)
- 6D) What are the Indications for Peritoneal dialysis catheter insertion? (2)
- 6E) Why peritoneal equilibration test is prescribed? (2)

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Question Paper

Exam Date & Time: 26-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. EMT/B.Sc. RRT & DT/B.Sc. CVT/B.Sc. MIT/BOT/B.Sc. PFT/B.Sc.AOTT DEGREE
EXAMINATION - MAY 2022
SUBJECT: PHC2203 - PHARMACOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Describe the terms "Iatrogenic disease", "Generic name" and "Synergism" with suitable examples. (10)
List two sources of drugs with an example for each. List two advantages and two disadvantages of the intravenous route of drug administration.
(6+2+2 = 10 marks)
- 2A) List two anticholinesterases and describe their mechanism of action. Mention two adverse effects of atropine. List two examples and two therapeutic uses of adrenergic drugs. (6)
- 2B) List two examples each for skeletal muscle relaxants and general anaesthetics. Mention four pharmacological actions of morphine. (4)
- 3A) List two drugs used for peptic ulcer and explain the mechanism of action of any one of them. (5)
Mention two classes of antiemetics with an example for each.
- 3B) Explain the mechanism of action of warfarin and list its two adverse effects. Enumerate two oral iron preparations and mention their two therapeutic uses. (5)
- 3C) List three classes of drugs with an example for each used in hypertension. Explain the mechanism of action of any one class. (5)
- 3D) Define suprainfection with an example. List two common features of aminoglycosides. List two drugs each used in tuberculosis and viral infection. (5)
- 4A) List two uses and two adverse effects of glucocorticoids. (2)
- 4B) Explain the mechanism of anti-asthmatic action of salbutamol. (2)
- 4C) List two second generation antihistaminics and mention their two advantages over first generation antihistaminics. (2)
- 4D) Explain the anti-inflammatory action of aspirin. (2)
- 4E) List two each anti-thyroid and oral antidiabetic drugs. (2)

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Question Paper

Exam Date & Time: 28-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. HIM/B.Sc. AOTT/B.Sc. EMT/B.Sc. MIT/B.Sc. RRT & DT/B.Sc. RT DEGREE EXAMINATION -
MAY 2022

SUBJECT : GPY2201 - GENERAL PSYCHOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1) | Explain the trait approach to personality | (10) |
| 2) | Summarise the different theories of forgetting | (10) |
| 3A) | Perceptual constancy | (5) |
| 3B) | Emotional intelligence | (5) |
| 3C) | Applications of Operant conditioning | (5) |
| 3D) | Any two theories of emotion | (5) |
| 4A) | Define Psychology | (2) |
| 4B) | Incentive theory | (2) |
| 4C) | Pragnanz | (2) |
| 4D) | Sensory memory | (2) |
| 4E) | Thinking | (2) |

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Question Paper

Exam Date & Time: 30-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - MAY/JUNE 2022
SUBJECT: RRT2241 - PROGRAM ELECTIVE-1 - PEDIATRIC DIALYSIS
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) List the types of vascular access used in the pediatrics hemodialysis patients. Explain catheter size and preferred access location in these patients. (10)
- 2) Outline the common complications of peritoneal dialysis in pediatrics. List any four advantages of pediatric peritoneal dialysis. (10)
- 3A) Explain the causes and management of hypotension in pediatrics during hemodialysis. (5)
- 3B) What is the importance of nutrition in pediatric dialysis patients? (5)
- 3C) Outline the components of pediatric hemodialysis prescription. (5)
- 3D) List the indications and contraindications for pediatric peritoneal dialysis. (5)
- 4A) Name the peritoneal dialysis modalities used in the pediatric patients. (2)
- 4B) Define hemodialysis adequacy. (2)
- 4C) What are the advantages of curled PD catheters over straight catheters in children? (2)
- 4D) Name any two indications for hemodialysis in children. (2)
- 4E) List any two importance of family training in pediatric dialysis. (2)

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